

#3

SEQUENCE LISTING



<110> Aventis Pharma Deutschland GmbH
<120> Process for identifying substances which modulate the activity of hyperpolarization-activated cation channels

<130> AVE D-2000/A006

<140> 10006309.8

<141> 2000-02-12

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 889

<212> PRT

<213> Homo sapiens

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Pro Ala Pro Pro Gln His Pro Pro Arg Ala Glu Ala Leu Pro Pro Glu
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Ala Ala Asp Glu Gly Gly Pro Arg Gly Arg Leu Arg Ser Arg Asp Ser
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Ser Cys Gly Arg Pro Gly Thr Pro Gly Ala Ala Ser Thr Ala Lys Gly
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Ser Pro Asn Gly Glu Cys Gly Arg Gly Glu Pro Gln Cys Ser Pro Ala
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Gly Pro Glu Gly Pro Ala Arg Gly Pro Lys Val Ser Phe Ser Cys Arg
115 120 125

Gly Ala Ala Ser Gly Pro Ala Pro Gly Pro Gly Pro Ala Glu Glu Ala
130 135 140

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APR 10 2002

TECH CENTER 1600/2900

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 Thr Glu Ser Arg Ser Ser Ala Leu Gly Ala Ala Asp Ser Glu Gly Pro
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 Ala Arg Gly Ala Gly Lys Ser Ser Thr Asn Gly Asp Cys Arg Arg Phe
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 Arg Gly Ser Leu Ala Ser Leu Gly Ser Arg Gly Gly Gly Ser Gly Gly
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 Arg Arg Leu Ile Ala Glu Gly Asp Ala Ser Pro Gly Glu Asp Arg Thr

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Gly Ala Ala Ala Gly Asp Gln Ile Leu Pro Glu Ala Glu Val Arg Leu					
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Gly Gln Ala Gly Phe Met Gln Arg Gln Phe Gly Ala Met Leu Gln Pro					
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Gly Val Asn Lys Phe Ser Leu Arg Met Phe Gly Ser Gln Lys Ala Val					
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Glu Arg Glu Gln Glu Arg Val Lys Ser Ala Gly Phe Trp Ile Ile His					
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Asp Tyr Ile Phe Leu Ile Val Glu Thr Arg Ile Asp Ser Glu Val Tyr					
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Lys Thr Ala Arg Ala Leu Arg Ile Val Arg Phe Thr Lys Ile Leu Ser					
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Tyr Gly Arg Gln Ala Pro Val Gly Met Ser Asp Val Trp Leu Thr Met						
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Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly His						
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Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr Gln						
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Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu Pro						
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Pro Asp Thr Arg Gln Arg Ile His Asp Tyr Tyr Glu His Arg Tyr Gln						
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Gly Lys Met Phe Asp Glu Glu Ser Ile Leu Gly Glu Leu Ser Glu Pro						
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Leu Arg Glu Glu Ile Ile Asn Phe Asn Cys Arg Lys Leu Val Ala Ser						
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<212> PRT

<213> Murinae gen. sp.

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Gln Pro Gln Pro Pro Pro Ala Pro Pro Pro Asn Pro Thr Thr Pro Ser
35 40 45

His Pro Glu Ser Ala Asp Glu Pro Gly Pro Arg Ala Arg Leu Cys Ser
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Arg Asp Ser Ala Cys Thr Pro Gly Ala Ala Lys Gly Gly Ala Asn Gly
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Glu Cys Gly Arg Gly Glu Pro Gln Cys Ser Pro Glu Gly Pro Ala Arg
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Gly Pro Lys Val Ser Phe Ser Cys Arg Gly Ala Ala Ser Gly Pro Ser
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Gln Pro Gly Val Asn Lys Phe Ser Leu Arg Met Phe Gly Ser Gln Lys
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Ala Val Glu Arg Glu Gln Glu Arg Val Lys Ser Ala Gly Ala Trp Ile
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 Phe Lys Asp Glu Thr Thr Ala Pro Trp Ile Val Phe Asn Val Val Ser
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 Asp Thr Phe Phe Leu Met Asp Leu Val Leu Asn Phe Arg Thr Gly Ile
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 Glu Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys
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 Ile Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu
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Gly His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln
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Tyr Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys
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Leu Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg
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Tyr Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn
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Gly Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val
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Ala Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala
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Met Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile
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Phe Glu Thr Val Ala Ile Asp Arg Leu Asp Arg Ile Gly Lys Lys Asn
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Ser Ile Leu Leu His Lys Val Gln His Asp Leu Ser Ser Gly Val Phe
 645 650 655

Asn Asn Gln Glu Asn Ala Ile Ile Gln Glu Ile Val Lys Tyr Asp Arg
 660 665 670

Glu Met Val Gln Gln Ala Glu Leu Gly Gln Arg Val Gly Leu Phe Pro
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Pro Pro Pro Pro Pro Gln Val Thr Ser Ala Ile Ala Thr Leu Gln Gln
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Pro Leu Pro Pro Ala Ala Ser Pro Gly Pro Pro Ala Ala Ser Pro Pro
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Ala Ala Pro Ser Ser Pro Arg Ala Pro Arg Thr Ser Pro Tyr Gly Val
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Pro Gly Ser Pro Ala Thr Arg Val Gly Pro Ala Leu Pro Ala Arg Arg
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Leu Ser Arg Ala Ser Arg Pro Leu Ser Ala Ser Gln Pro Ser Leu Pro
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His Gly Val Pro Ala Pro Ser Pro Ala Ala Ser Ala Arg Pro Ala Ser
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Ser Ser Thr Pro Arg Leu Gly Pro Ala Pro Thr Ala Arg Thr Ala Ala
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Pro Ser Pro Asp Arg Arg Asp Ser Ala Ser Pro Gly Ala Ala Ser Gly
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